

# QMS6K

## DC~40GHz, SP3T~SP6T

Features:  
 \* Low VSWR  
 \* Low Insertion Loss  
 \* High Isolation

Applications:  
 \* Wireless  
 \* Transmitter  
 \* Laboratory Test  
 \* Radar

### Electrical

Frequency:		DC~40GHz		
Impedance:		50Ω		
Frequency range (GHz)	Insertion Loss (dB)	Isolation (dB)	VSWR	
DC-6	0.3	70	1.3	
6-12	0.4	70	1.4	
12-18	0.5	60	1.5	
18-26.5	0.7	55	1.7	
26.5-32	0.8	50	1.8	
32-40	0.9	50	1.9	
Voltage* <sup>1</sup> (V)		+12	+24	+28
Current (mA)	Normally Open	300	150	140

[1] The voltage can be selected according to user requirements.

### Mechanical

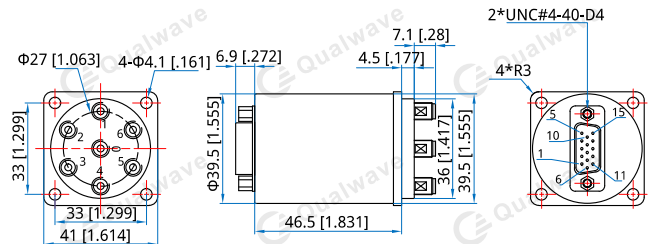
Size* <sup>2</sup> :	46.5*41*41mm 1.831*1.614*1.614in
Switching Sequence:	Break before Make
Switching Time:	15mS max.
Operation Life:	2M Cycles
Vibration (operating):	20-2000Hz, 10G RMS
Mechanical Shock (non-operating):	30G, 1/2sine, 11mS
RF Connectors:	2.92mm Female
Power Supply & Control Interface Connectors:	D-Sub 15
Mounting:	4-Φ4.1mm through-hole

[2] Exclude connectors.

### Environmental

Temperature:	-25~+65°C
Extended Temperature:	-45~+85°C

### Outline Drawings



Unit: mm [in]  
 Tolerance: ±0.5mm [±0.02in]

### Additional Options

TTL: T  
 Indicators: I  
 Extended Temperature: Z  
 Positive Common  
 Waterproof Sealing Type

### How To Order

**QMSVK-F-WXYZ**  
 V: 3~6 (SP3T~SP6T)  
 F: Frequency in GHz  
 W: Actuator Type. Normally Open: 3.  
 X: Voltage. +12V: E, +24V: K, +28V: M.  
 Y: Power Interface. D-Sub: 1.  
 Z: Additional Options.

### Examples:

To order a SP4T switch, DC-40GHz, Normally Open, +12V, D-Sub, TTL, Indicators, specify QMS4K-40-3E1TI.

Customization is available upon request.

## Pin Numbering

### Normally Open

Pin	Function	Pin	Function
1~6	V1~V6	14	Indicator (Com)
7	COM	15	NC
8~13	Indicator (1~6)		

### Normally Open&TTL

Pin	Function	Pin	Function
1~6	A1~A6	9~14	Indicator (1~6)
7	VDC	15	Indicator (Com)
8	COM		

## Port

SP3T	1, 3, 5	SP5T	1~5
SP4T	2~3, 5~6	SP6T	1~6

## Driving Schematic Diagram

